

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/621,006A  
Source: 1FW/6  
Date Processed by STIC: 3/6/07

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 03/06/2007

PATENT APPLICATION: US/10/621,006A

TIME: 11:31:17

Input Set : A:\1702313U.APP

Output Set: N:\CRF4\03062007\J621006A.raw

```

3 <110> APPLICANT: DAVIDSON, BEVERLY L.
4     LAW, LANE K.
6 <120> TITLE OF INVENTION: ADENOVIRUS SEROTYPE 30 (AD30)
8 <130> FILE REFERENCE: 17023.013US2
10 <140> CURRENT APPLICATION NUMBER: 10/621,006A
11 <141> CURRENT FILING DATE: 2003-07-15
13 <150> PRIOR APPLICATION NUMBER: 09/758,008
14 <151> PRIOR FILING DATE: 2001-01-09
16 <160> NUMBER OF SEQ ID NOS: 24
18 <170> SOFTWARE: PatentIn Ver. 3.3
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 371
22 <212> TYPE: PRT
23 <213> ORGANISM: Adenovirus
25 <400> SEQUENCE: 1
26 Met Ser Lys Arg Leu Arg Val Glu Asp Asp Phe Asn Pro Val Tyr Pro
27   1           5           10           15
29 Tyr Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe
30           20           25           30
32 Val Ser Ser Asp Gly Phe Lys Asn Phe Pro Pro Gly Val Leu Ser Leu
33           35           40           45
35 Lys Leu Ala Asp Pro Ile Ala Ile Thr Asn Gly Asp Val Ser Leu Lys
36           50           55           60
38 Val Gly Gly Gly Leu Thr Val Glu Gln Asp Ser Gly Asn Leu Ser Val
39   65           70           75           80
41 Asn Pro Lys Ala Pro Leu Gln Val Gly Thr Asp Lys Lys Leu Glu Leu
42           85           90           95
44 Ala Leu Ala Pro Pro Phe Asp Val Arg Asp Asn Lys Leu Ala Ile Leu
45           100          105          110
47 Val Gly Asp Gly Leu Lys Val Ile Asp Arg Ser Ile Ser Asp Leu Pro
48           115          120          125
50 Gly Leu Leu Asn Tyr Leu Val Val Leu Thr Gly Lys Gly Ile Gly Asn
51           130          135          140
53 Glu Glu Leu Lys Asn Asp Asp Gly Ser Asn Lys Gly Val Gly Leu Cys
54 145          150          155          160
56 Val Arg Ile Gly Glu Gly Gly Gly Leu Thr Phe Asp Asp Lys Gly Tyr
57           165          170          175
59 Leu Val Ala Trp Asn Asn Lys His Asp Ile Arg Thr Leu Trp Thr Thr
60           180          185          190
62 Leu Asp Pro Ser Pro Asn Cys Lys Ile Asp Ile Glu Lys Asp Ser Lys
63           195          200          205
65 Leu Thr Leu Val Leu Thr Lys Cys Gly Ser Gln Ile Leu Ala Asn Val
66           210          215          220

```

## RAW SEQUENCE LISTING

DATE: 03/06/2007

PATENT APPLICATION: US/10/621,006A

TIME: 11:31:17

Input Set : A:\1702313U.APP

Output Set: N:\CRF4\03062007\J621006A.raw

```

68 Ser Leu Ile Ile Val Asn Gly Lys Phe Lys Ile Leu Asn Asn Lys Thr
69 225          230          235          240
71 Asp Pro Ser Leu Pro Lys Ser Phe Asn Ile Lys Leu Leu Phe Asp Gln
72          245          250          255
74 Asn Gly Val Leu Leu Glu Asn Ser Asn Ile Glu Lys Gln Tyr Leu Asn
75          260          265          270
77 Phe Arg Ser Gly Asp Ser Ile Leu Pro Glu Pro Tyr Lys Asn Ala Ile
78          275          280          285
80 Gly Phe Met Pro Asn Leu Leu Ala Tyr Ala Lys Ala Thr Thr Asp Gln
81          290          295          300
83 Ser Lys Ile Tyr Ala Arg Asn Thr Ile Tyr Gly Asn Ile Tyr Leu Asp
84 305          310          315          320
86 Asn Gln Pro Tyr Asn Pro Val Val Ile Lys Ile Thr Phe Asn Asn Glu
87          325          330          335
89 Ala Asp Ser Ala Tyr Ser Ile Thr Phe Asn Tyr Ser Trp Thr Lys Asp
90          340          345          350
92 Tyr Asp Asn Ile Pro Phe Asp Ser Thr Ser Phe Thr Phe Ser Tyr Ile
93          355          360          365
95 Ala Gln Glu
96          370
99 <210> SEQ ID NO: 2
100 <211> LENGTH: 362
101 <212> TYPE: PRT
102 <213> ORGANISM: Adenovirus
104 <400> SEQUENCE: 2
105 Met Ser Lys Arg Leu Arg Val Glu Asp Asp Phe Asn Pro Val Tyr Pro
106 1          5          10          15
108 Tyr Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe
109          20          25          30
111 Val Ser Ser Asp Gly Phe Gln Asn Phe Pro Pro Gly Val Leu Ser Leu
112          35          40          45
114 Lys Leu Ala Asp Pro Ile Ala Ile Val Asn Gly Asn Val Ser Leu Lys
115          50          55          60
117 Val Gly Gly Gly Leu Thr Leu Gln Asp Gly Thr Gly Lys Leu Thr Val
118 65          70          75          80
120 Asn Ala Asp Pro Pro Leu Gln Leu Thr Asn Asn Lys Leu Gly Ile Ala
121          85          90          95
123 Leu Asp Ala Pro Phe Asp Val Ile Asp Asn Lys Leu Thr Leu Leu Ala
124          100          105          110
126 Gly His Gly Leu Ser Ile Ile Thr Lys Glu Thr Ser Thr Leu Pro Gly
127          115          120          125
129 Leu Arg Asn Thr Leu Val Val Leu Thr Gly Lys Gly Ile Gly Thr Glu
130          130          135          140
132 Ser Thr Asp Asn Gly Gly Thr Val Cys Val Arg Val Gly Glu Gly Gly
133 145          150          155          160
135 Gly Leu Ser Phe Asn Asn Asp Gly Asp Leu Val Ala Phe Asn Lys Lys
136          165          170          175
138 Glu Asp Lys Arg Thr Leu Trp Thr Thr Pro Asp Thr Ser Pro Asn Cys
139          180          185          190

```

## RAW SEQUENCE LISTING

DATE: 03/06/2007

PATENT APPLICATION: US/10/621,006A

TIME: 11:31:17

Input Set : A:\1702313U.APP

Output Set: N:\CRF4\03062007\J621006A.raw

```

141 Lys Ile Asp Gln Asp Lys Asp Ser Lys Leu Thr Leu Val Leu Thr Lys
142      195      200      205
144 Cys Gly Ser Gln Ile Leu Ala Asn Val Ser Leu Ile Val Val Asp Gly
145      210      215      220
147 Lys Tyr Lys Ile Ile Asn Asn Asn Thr Gln Pro Ala Leu Lys Gly Phe
148 225      230      235      240
150 Thr Ile Lys Leu Leu Phe Asp Glu Asn Gly Val Leu Met Glu Ser Ser
151      245      250      255
153 Asn Leu Gly Lys Ser Tyr Trp Asn Phe Arg Asn Glu Asn Ser Ile Met
154      260      265      270
156 Ser Thr Ala Tyr Glu Lys Ala Ile Gly Phe Met Pro Asn Leu Val Ala
157      275      280      285
159 Tyr Pro Lys Pro Thr Ala Gly Ser Lys Lys Tyr Ala Arg Asp Ile Val
160      290      295      300
162 Tyr Gly Asn Ile Tyr Leu Gly Gly Lys Pro Asp Gln Pro Val Thr Ile
163 305      310      315      320
165 Lys Thr Thr Phe Asn Gln Glu Thr Gly Cys Glu Tyr Ser Ile Thr Phe
166      325      330      335
168 Asp Phe Ser Trp Ala Lys Thr Tyr Val Asn Val Glu Phe Glu Thr Thr
169      340      345      350
171 Ser Phe Thr Phe Ser Tyr Ile Ala Gln Glu
172      355      360
175 <210> SEQ ID NO: 3
176 <211> LENGTH: 366
177 <212> TYPE: PRT
178 <213> ORGANISM: Adenovirus
180 <400> SEQUENCE: 3
181 Met Ser Lys Arg Leu Arg Val Glu Asp Asp Phe Asn Pro Val Tyr Pro
182 1      5      10      15
184 Tyr Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe
185      20      25      30
187 Val Ser Ser Asp Gly Phe Lys Asn Phe Pro Pro Gly Val Leu Ser Leu
188      35      40      45
190 Lys Leu Ala Asp Pro Ile Thr Ile Ala Asn Gly Asp Val Ser Leu Lys
191      50      55      60
193 Val Gly Gly Gly Leu Thr Leu Gln Glu Gly Ser Met Thr Val Asp Pro
194 65      70      75      80
196 Lys Ala Pro Leu Gln Leu Ala Asn Asn Lys Lys Leu Glu Leu Val Tyr
197      85      90      95
199 Val Asp Pro Phe Glu Val Ser Ala Asn Lys Leu Ser Leu Lys Val Gly
200      100      105      110
202 His Gly Leu Lys Ile Leu Asp Asp Lys Ser Ala Gly Gly Leu Lys Asp
203      115      120      125
205 Leu Ile Gly Lys Leu Val Val Leu Thr Gly Lys Gly Ile Gly Thr Glu
206      130      135      140
208 Asn Leu Gln Asn Thr Asp Gly Ser Ser Arg Gly Ile Gly Ile Ser Val
209 145      150      155      160
211 Arg Ala Arg Glu Gly Leu Thr Phe Asp Asn Asp Gly Tyr Leu Val Ala
212      165      170      175

```

## RAW SEQUENCE LISTING

DATE: 03/06/2007

PATENT APPLICATION: US/10/621,006A

TIME: 11:31:17

Input Set : A:\1702313U.APP

Output Set: N:\CRF4\03062007\J621006A.raw

```

214 Trp Asn Pro Lys Tyr Asp Thr Arg Thr Leu Trp Thr Thr Pro Asp Thr
215           180           185           190
217 Ser Pro Asn Cys Arg Ile Asp Lys Glu Lys Asp Ser Lys Leu Thr Leu
218           195           200           205
220 Val Leu Thr Lys Cys Gly Ser Gln Ile Leu Ala Asn Val Ser Leu Ile
221           210           215           220
223 Val Val Ser Gly Lys Tyr Gln Tyr Ile Asp His Ala Thr Asn Pro Thr
224 225           230           235           240
226 Leu Lys Ser Phe Lys Ile Lys Leu Leu Phe Asp Asn Lys Gly Val Leu
227           245           250           255
229 Leu Pro Ser Ser Asn Leu Asp Ser Thr Tyr Trp Asn Phe Arg Ser Asp
230           260           265           270
232 Asn Leu Thr Val Ser Glu Ala Tyr Lys Asn Ala Val Glu Phe Met Pro
233           275           280           285
235 Asn Leu Val Ala Tyr Pro Lys Pro Thr Thr Gly Ser Lys Lys Tyr Ala
236           290           295           300
238 Arg Asp Ile Val Tyr Gly Asn Ile Tyr Leu Gly Gly Leu Ala Tyr Gln
239 305           310           315           320
241 Pro Val Val Ile Lys Val Thr Phe Asn Glu Glu Ala Asp Ser Ala Tyr
242           325           330           335
244 Ser Ile Thr Phe Glu Phe Val Trp Asn Lys Glu Tyr Ala Arg Val Glu
245           340           345           350
247 Phe Glu Thr Thr Ser Phe Thr Phe Ser Tyr Ile Ala Gln Gln
248           355           360           365
251 <210> SEQ ID NO: 4
252 <211> LENGTH: 330
253 <212> TYPE: PRT
254 <213> ORGANISM: Adenovirus
256 <400> SEQUENCE: 4
257 Met Ala Lys Arg Ala Arg Leu Ser Thr Ser Phe Asn Pro Val Tyr Pro
258   1           5           10           15
260 Tyr Glu Asp Glu Ser Ser Ser Gln His Pro Phe Ile Asn Pro Gly Phe
261           20           25           30
263 Ile Ser Pro Asp Gly Phe Thr Gln Ser Pro Asn Gly Val Leu Ser Leu
264           35           40           45
266 Lys Cys Val Asn Pro Leu Thr Thr Ala Ser Gly Ser Leu Gln Leu Lys
267           50           55           60
269 Val Gly Ser Gly Leu Thr Val Asp Thr Thr Asp Gly Ser Leu Glu Glu
270   65           70           75           80
272 Asn Ile Lys Val Asn Thr Pro Leu Thr Lys Ser Asn His Ser Ile Asn
273           85           90           95
275 Leu Pro Ile Gly Asn Gly Leu Gln Ile Glu Gln Asn Lys Leu Cys Ser
276           100          105          110
278 Lys Leu Val Val Leu Thr Gly Lys Gly Ile Gly Lys Leu Gly Asn Gly
279           115          120          125
281 Leu Thr Phe Asp Ser Ser Asn Ser Ile Ala Leu Lys Asn Asn Thr Leu
282           130          135          140
284 Trp Thr Gly Pro Lys Pro Glu Ala Asn Cys Ile Ile Glu Tyr Gly Lys
285 145          150          155          160

```

## RAW SEQUENCE LISTING

DATE: 03/06/2007

PATENT APPLICATION: US/10/621,006A

TIME: 11:31:17

Input Set : A:\1702313U.APP

Output Set: N:\CRF4\03062007\J621006A.raw

```

287 Gln Asn Pro Asp Ser Lys Leu Thr Leu Ile Leu Val Lys Asn Gly Gly
288             165             170             175
290 Ile Val Asn Gly Tyr Val Thr Leu Met Gly Ala Ser Asp Tyr Val Asn
291             180             185             190
293 Thr Leu Phe Lys Asn Lys Asn Val Ser Ile Asn Val Glu Leu Tyr Phe
294             195             200             205
296 Asp Ala Thr Gly His Ile Leu Pro Asp Ser Ser Ser Leu Lys Thr Asp
297             210             215             220
299 Leu Glu Leu Lys Tyr Lys Gln Thr Ala Asp Phe Ser Ala Arg Gly Phe
300 225             230             235             240
302 Met Pro Ser Thr Thr Ala Tyr Pro Phe Val Leu Pro Asn Ala Gly Thr
303             245             250             255
305 His Asn Glu Asn Tyr Ile Phe Gly Gln Cys Tyr Tyr Lys Ala Ser Asp
306             260             265             270
308 Gly Ala Leu Phe Pro Leu Glu Val Thr Val Met Leu Asn Lys Arg Leu
309             275             280             285
311 Pro Asp Ser Arg Thr Ser Tyr Val Met Thr Phe Leu Trp Ser Leu Asn
312             290             295             300
314 Ala Gly Leu Ala Pro Glu Thr Thr Gln Ala Thr Leu Ile Thr Ser Pro
315 305             310             315             320
317 Phe Thr Phe Ser Tyr Ile Arg Glu Asp Asp
318             325             330
321 <210> SEQ ID NO: 5
322 <211> LENGTH: 581
323 <212> TYPE: PRT
324 <213> ORGANISM: Adenovirus
326 <400> SEQUENCE: 5
327 Met Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro
328 1             5             10             15
330 Tyr Asp Thr Glu Thr Gly Pro Pro Thr Val Pro Phe Leu Thr Pro Pro
331             20             25             30
333 Phe Val Ser Pro Asn Gly Phe Gln Glu Ser Pro Pro Gly Val Leu Ser
334             35             40             45
336 Leu Arg Leu Ser Glu Pro Leu Val Thr Ser Asn Gly Met Leu Ala Leu
337             50             55             60
339 Lys Met Gly Asn Gly Leu Ser Leu Asp Glu Ala Gly Asn Leu Thr Ser
340 65             70             75             80
342 Gln Asn Val Thr Thr Val Ser Pro Pro Leu Lys Lys Thr Lys Ser Asn
343             85             90             95
345 Ile Asn Leu Glu Ile Ser Ala Pro Leu Thr Val Thr Ser Glu Ala Leu
346             100            105            110
348 Thr Val Ala Ala Ala Pro Leu Met Val Ala Gly Asn Thr Leu Thr
349             115            120            125
351 Met Gln Ser Gln Ala Pro Leu Thr Val His Asp Ser Lys Leu Ser Ile
352             130            135            140
354 Ala Thr Gln Gly Pro Leu Thr Val Ser Glu Gly Lys Leu Ala Leu Gln
355 145            150            155            160
357 Thr Ser Gly Pro Leu Thr Thr Thr Asp Ser Ser Thr Leu Thr Ile Thr
358             165            170            175

```

**VERIFICATION SUMMARY**

DATE: 03/06/2007

PATENT APPLICATION: US/10/621,006A

TIME: 11:31:18

Input Set : A:\1702313U.APP

Output Set: N:\CRF4\03062007\J621006A.raw